

Figure 1

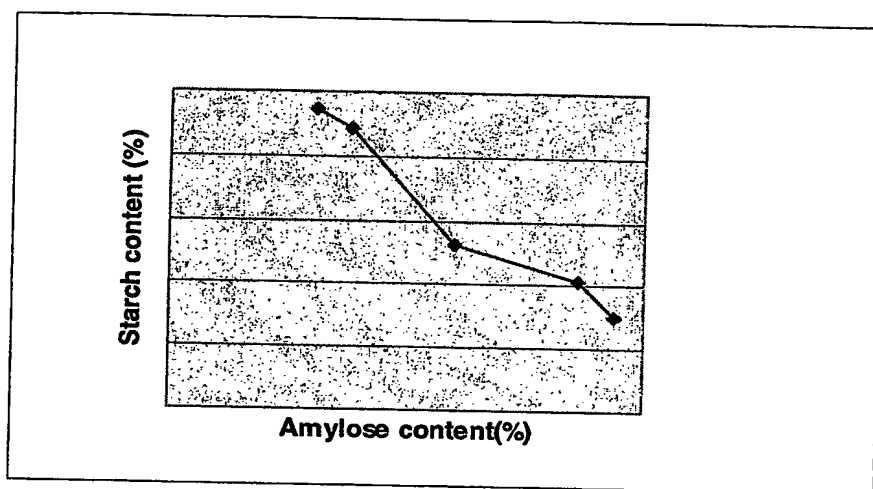


Figure 2

| Variety/line | Mother variety | Dry matter % | Fructose % of Dm | Glucose % of Dm | Sucrose % of Dm |
|--------------|----------------|--------------|------------------|-----------------|-----------------|
| Producent | | 27,8 | 1,8 | 2,2 | 3,1 |
| Prevalent | | 27,1 | 1,2 | 1,7 | 2,7 |
| Dinamo | | 27,7 | 0,8 | 1,7 | 2,2 |
| Kuras | | 27,9 | 1,8 | 2,2 | 2,4 |
| AM98-2012 | Producent | 22,3 | 3,1 | 4,0 | 4,7 |
| AM98-2019 | Prevalent | 18,4 | 2,9 | 4,4 | 3,8 |
| AM98-2021 | Prevalent | 17,1 | 3,1 | 5,9 | 3,5 |
| AM99-2002 | Dinamo | 19,3 | 2,4 | 3,8 | 3,0 |
| AM99-2003 | Dinamo | 18,8 | 2,5 | 5,5 | 3,2 |
| AM99-2004 | Dinamo | 11,7 | 4,0 | 6,8 | 2,1 |
| AM00-2040 | Kuras | 21,0 | 5,0 | 6,3 | 3,5 |
| AM00-2041 | Kuras | 19,3 | 5,6 | 7,1 | 3,0 |

Figure 3

3 a) pHS1 for gene-inhibition of StGH1

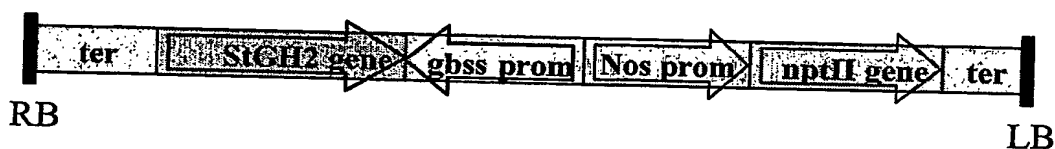
pHS1



5

3 b) pHS2 for gene-inhibition of StGH2

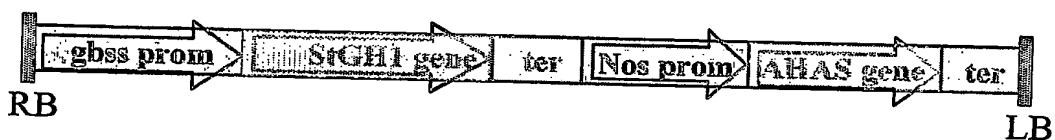
pHS2



3 c) pHS3 for over-expression of StGH1

10

pHS3



3 d) pHS4 for over-expression of StGH2

pHS4

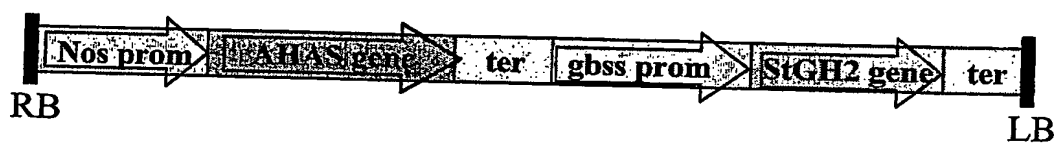


Figure 4

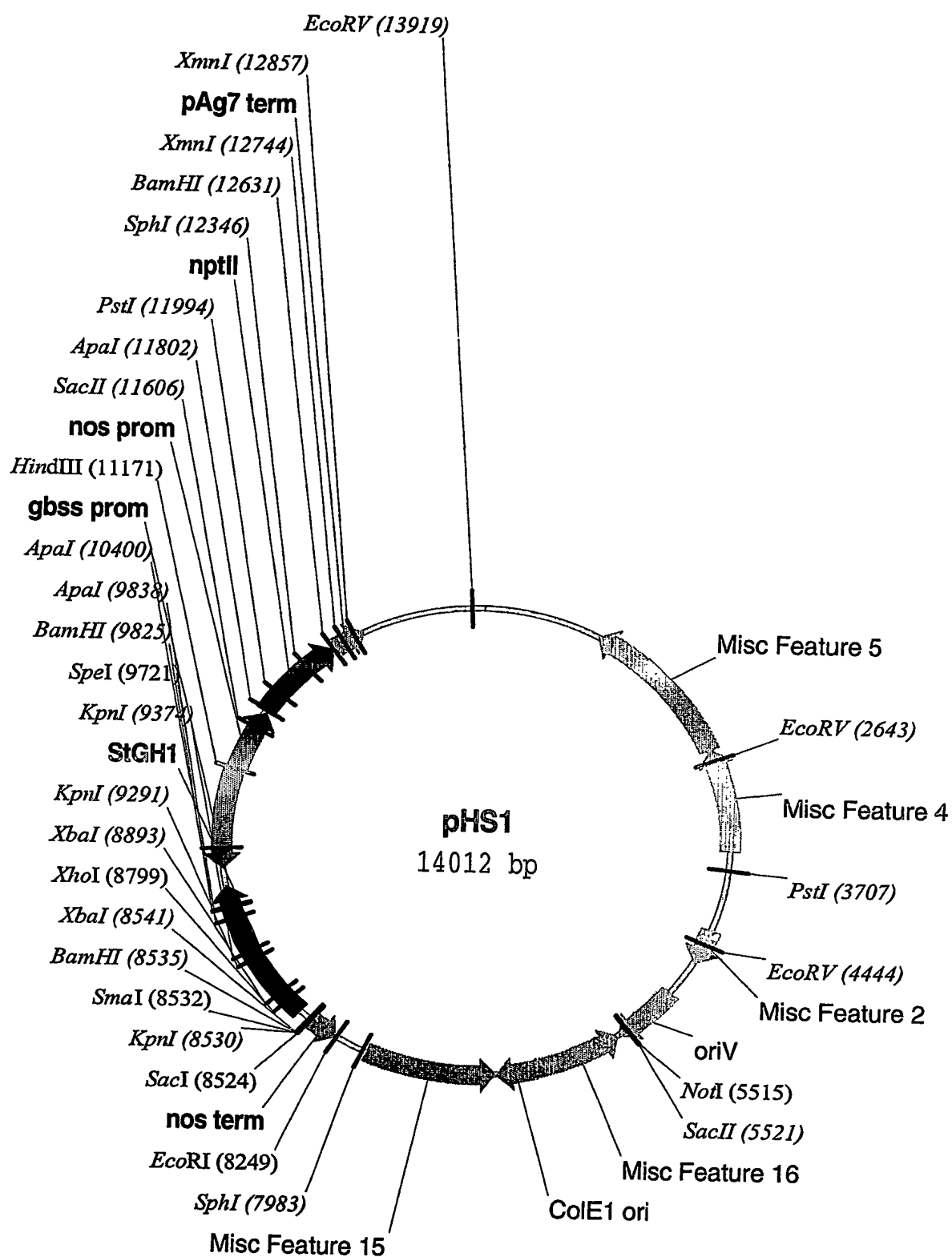


Figure 5

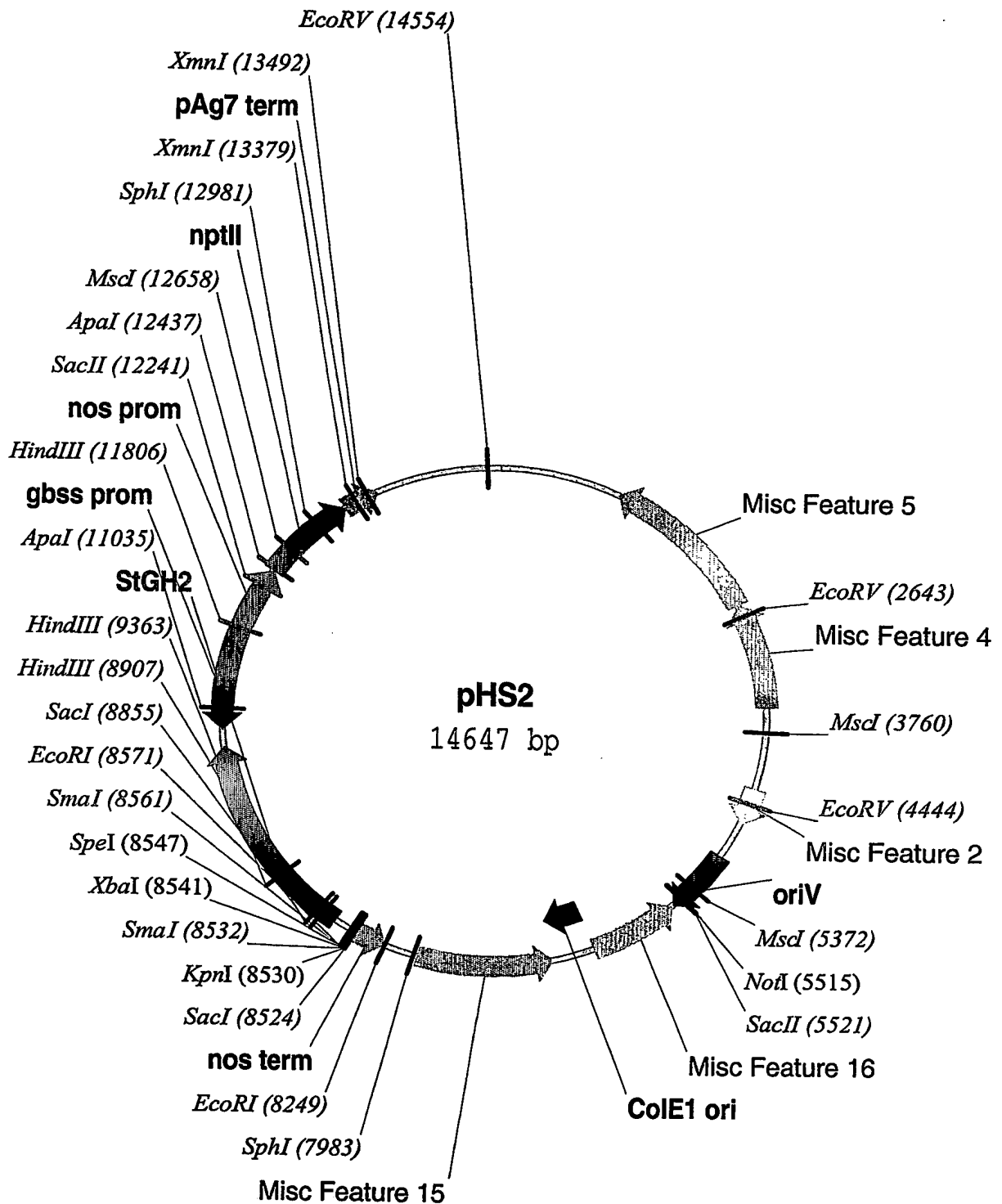


Figure 6

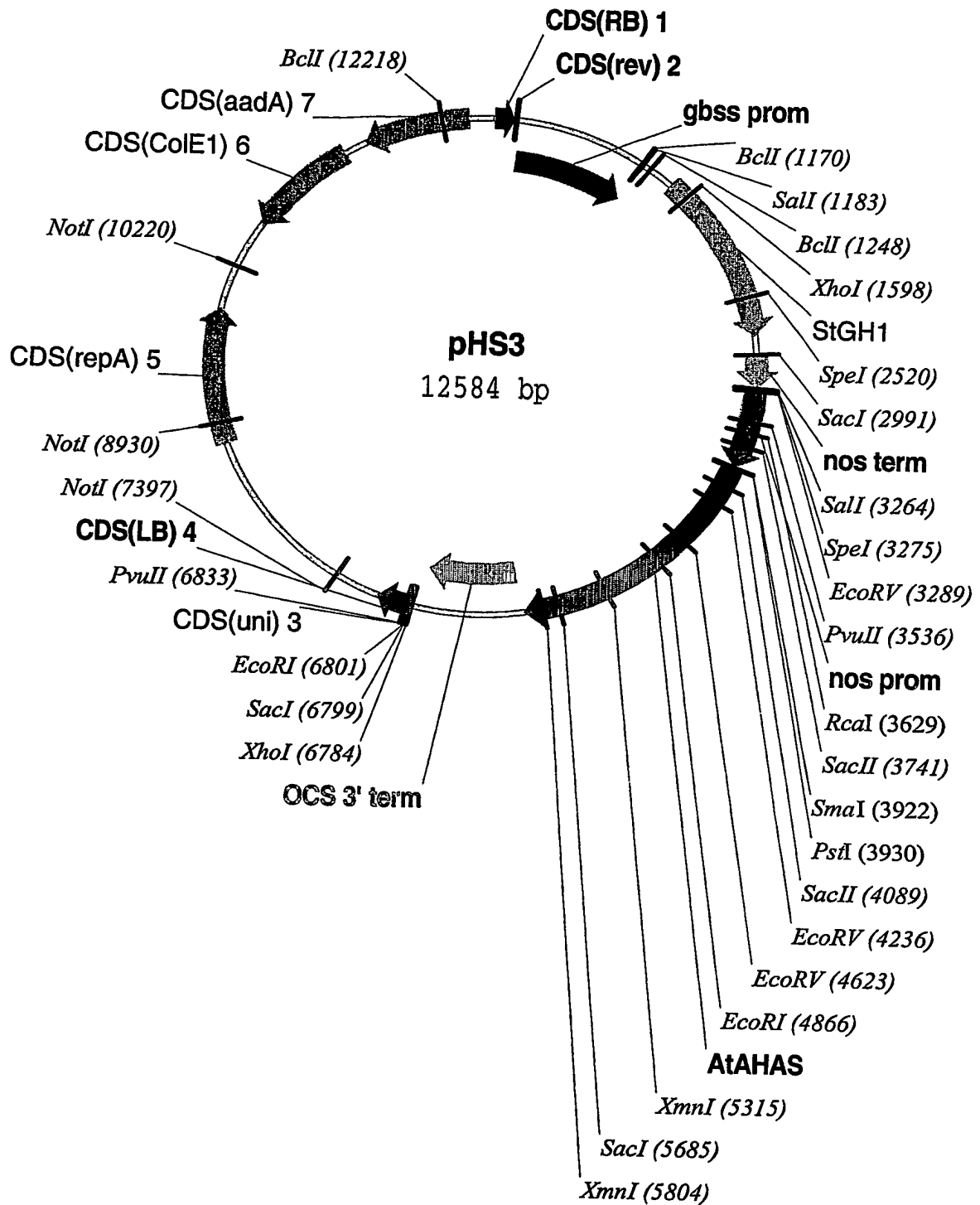


Figure 7

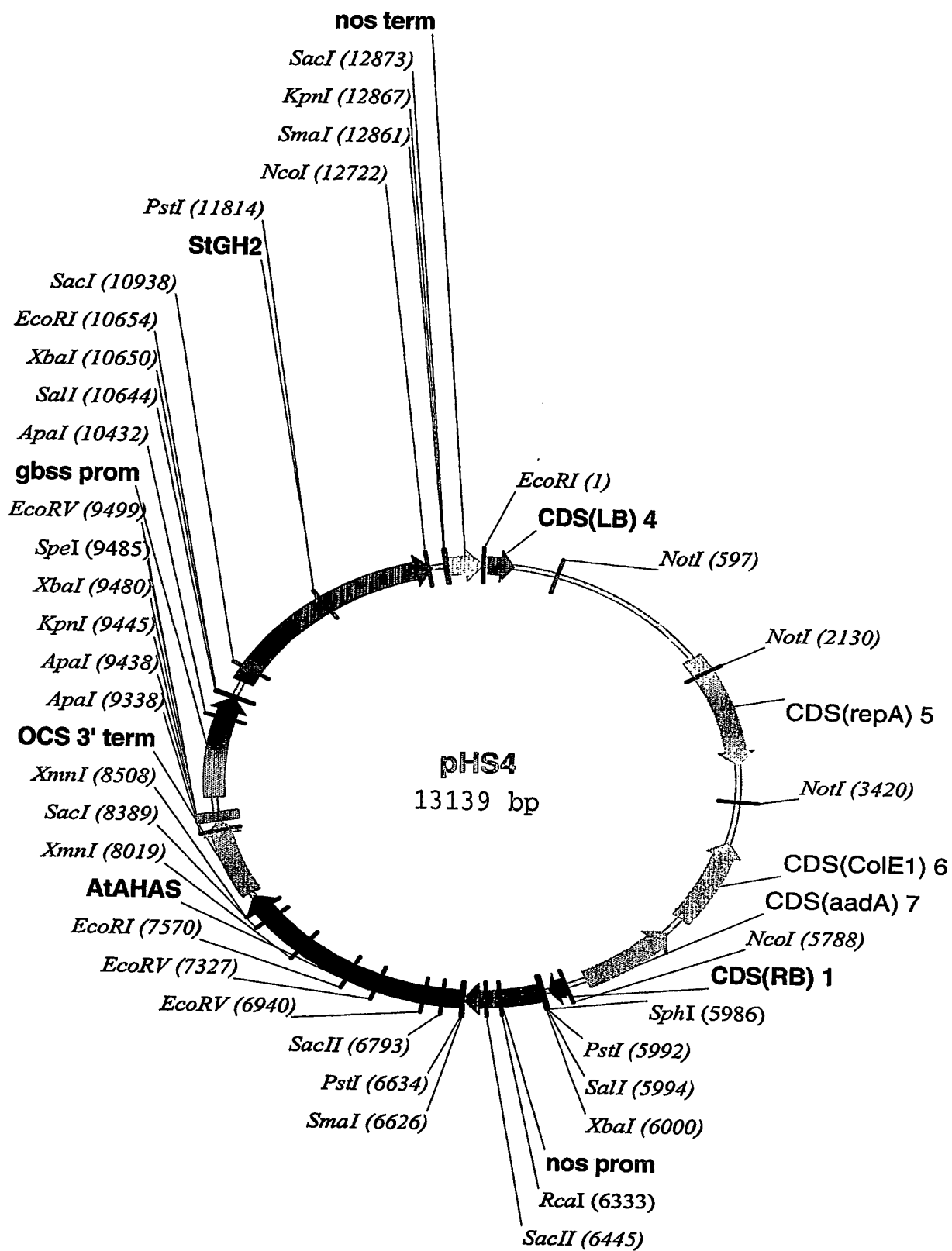
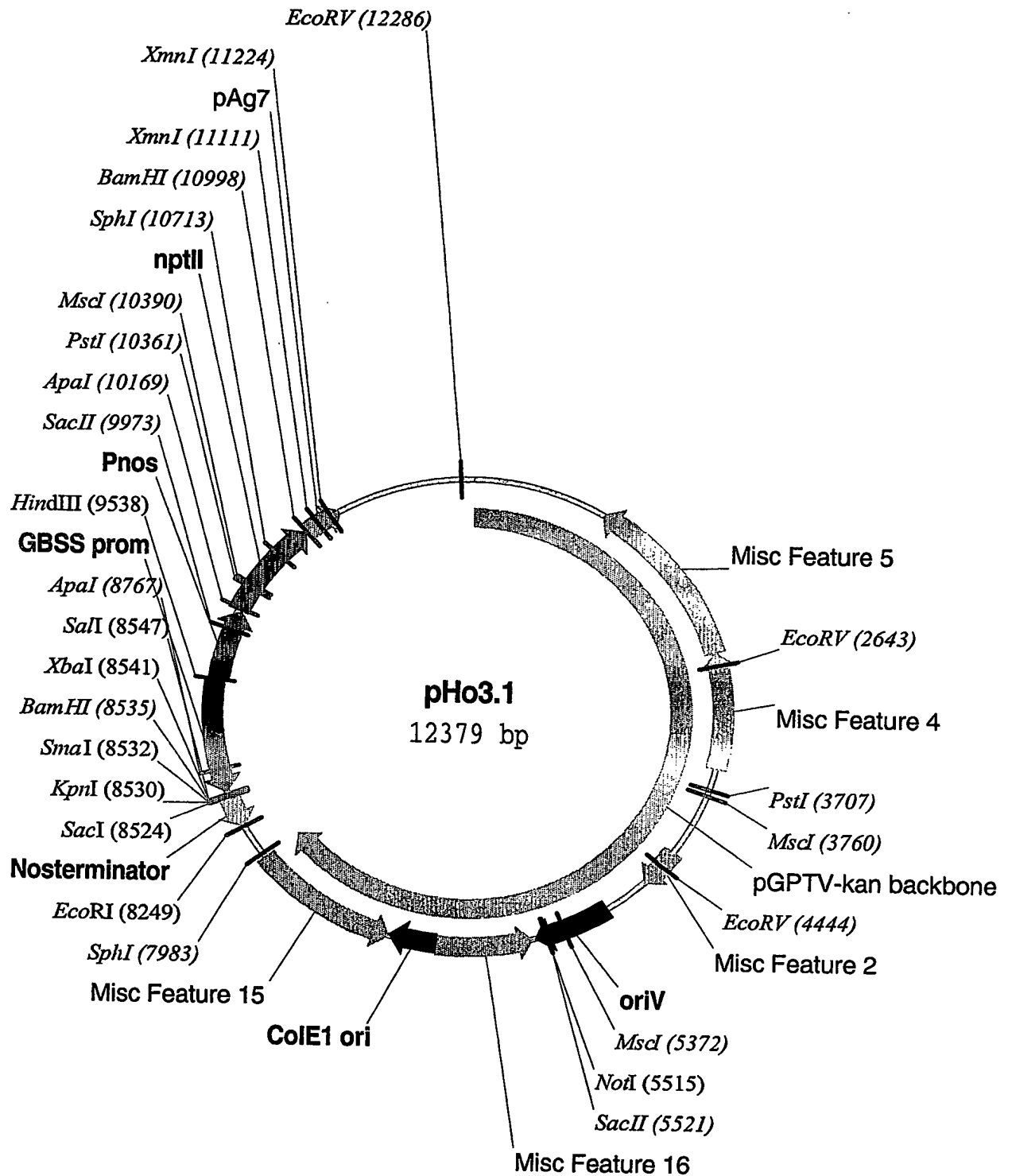
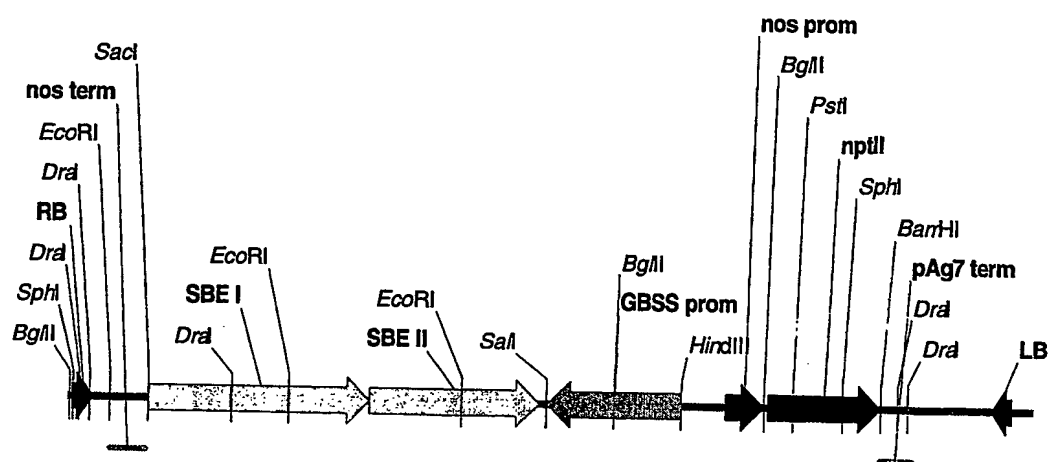


Figure 8



9/23

Figure 9



pHAbE12A T-DNA

10/23

Figure 10

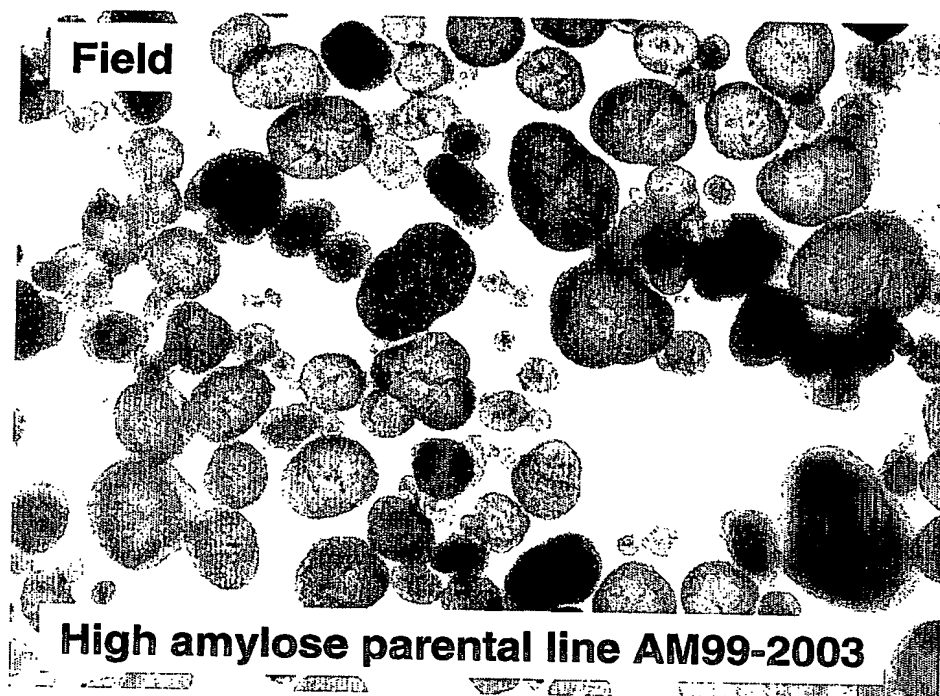


Figure 11

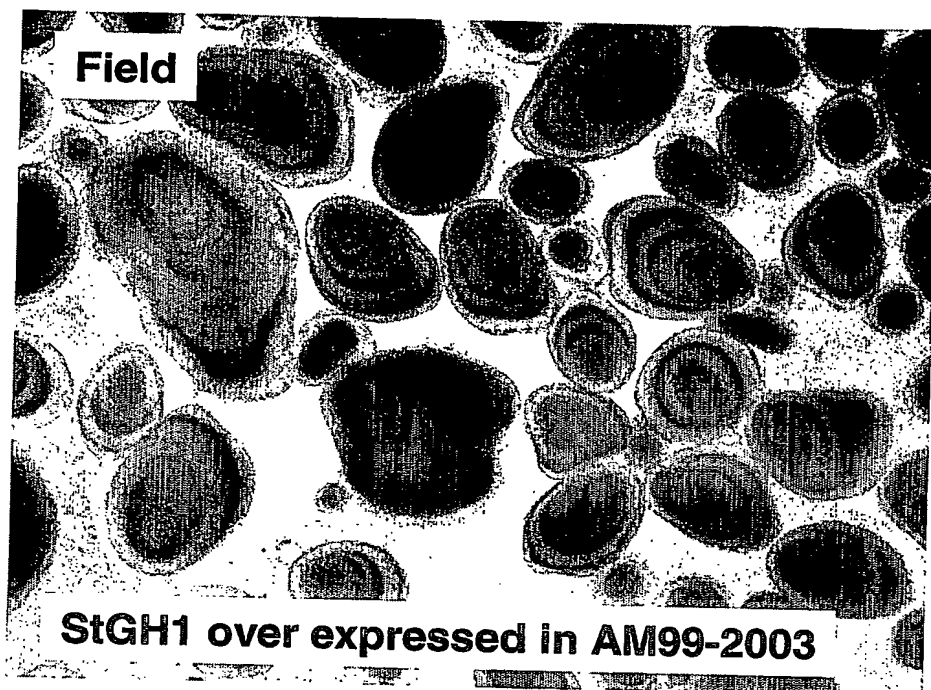


Figure 12

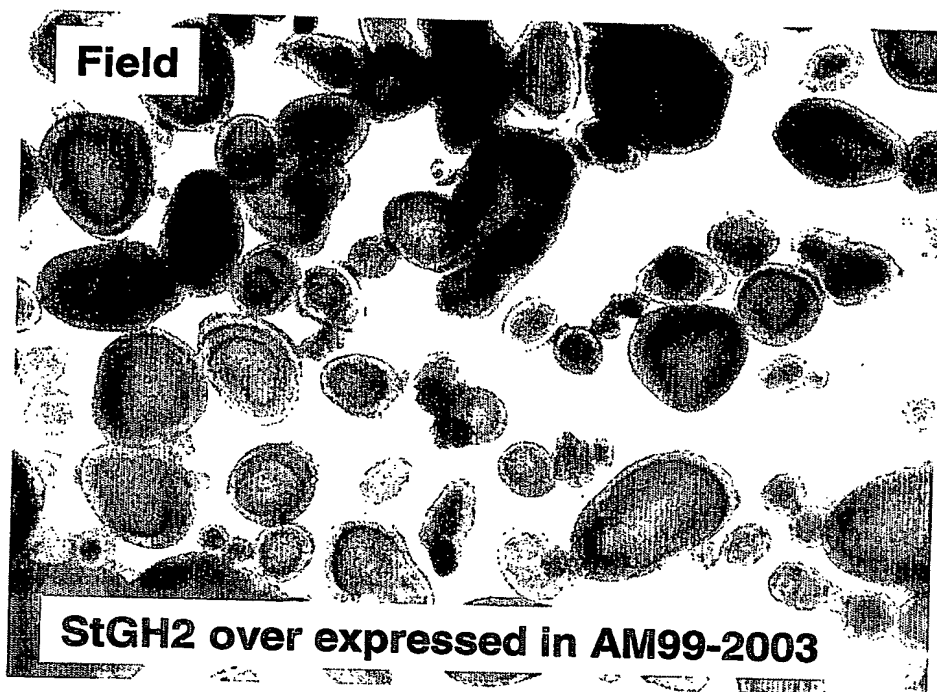


Figure 13

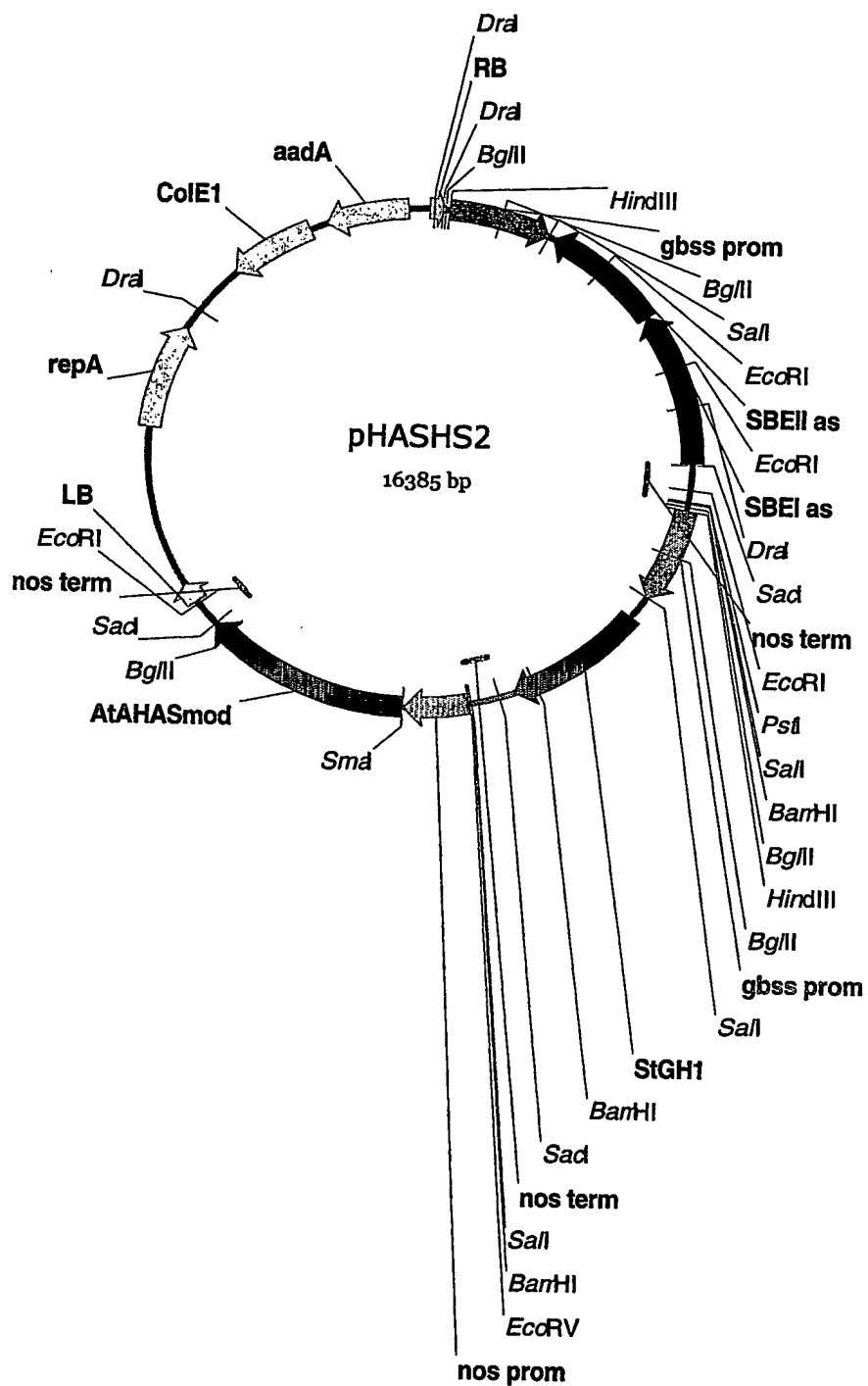


Figure 14

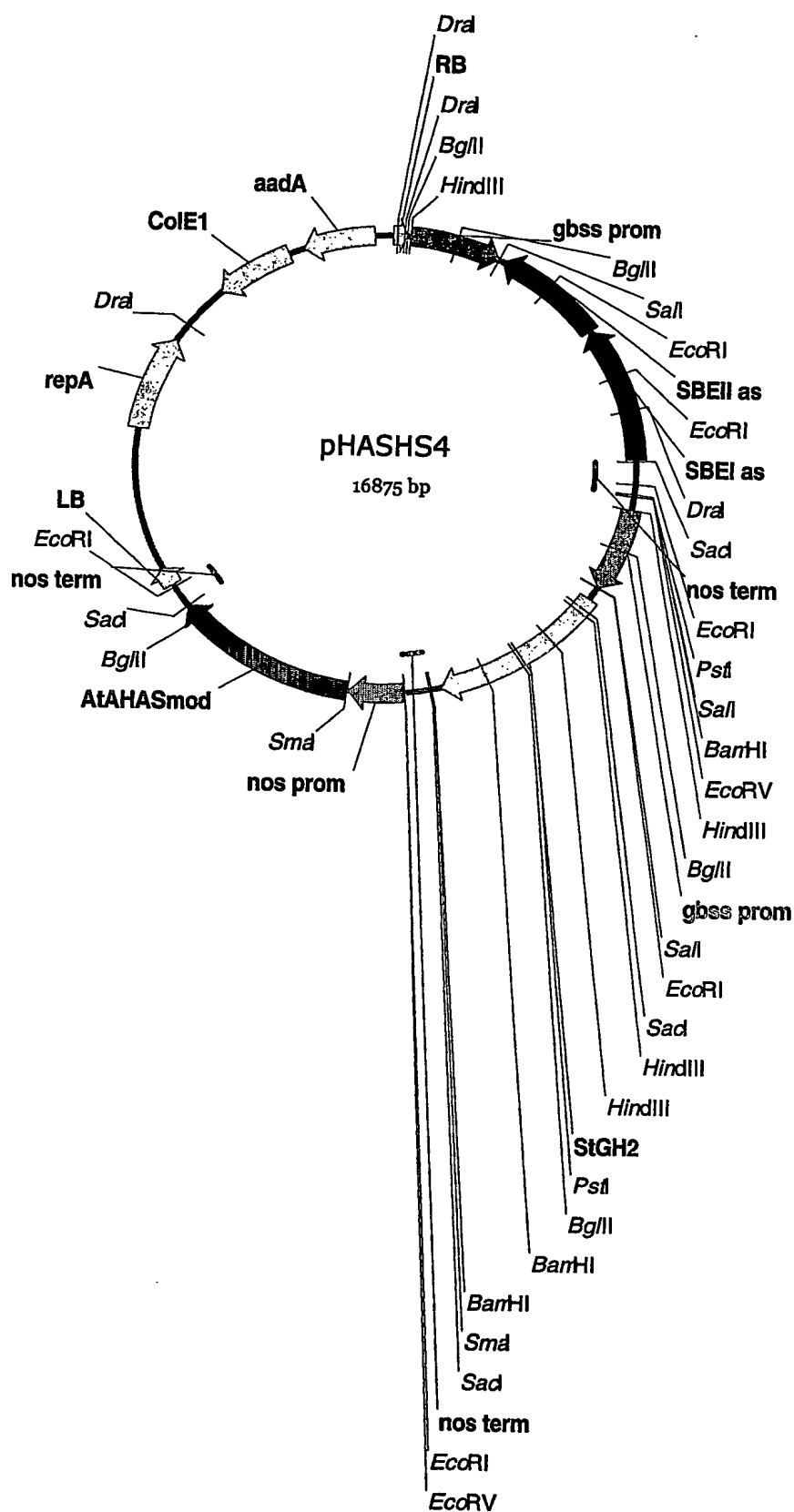


Figure 15

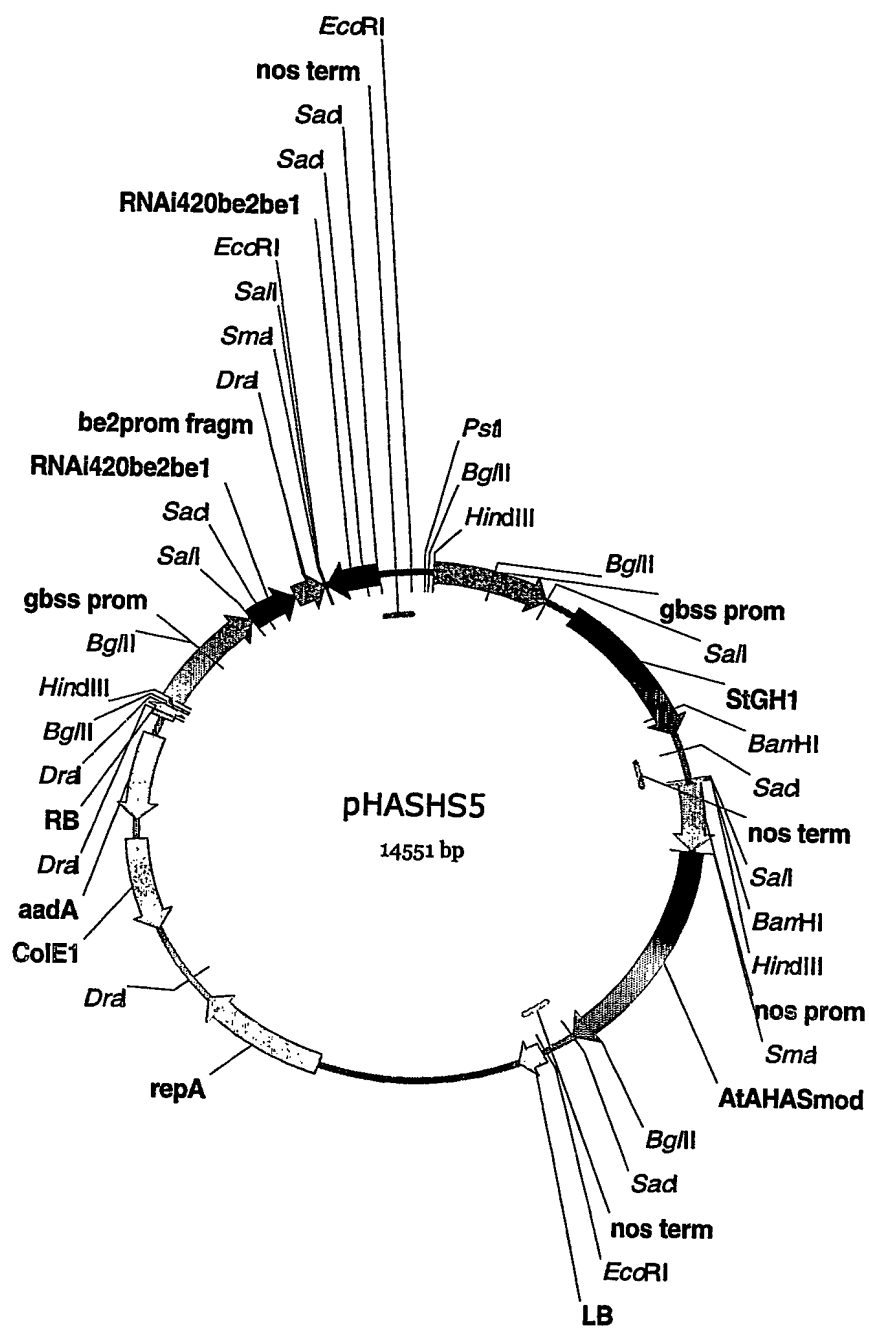


Figure 16

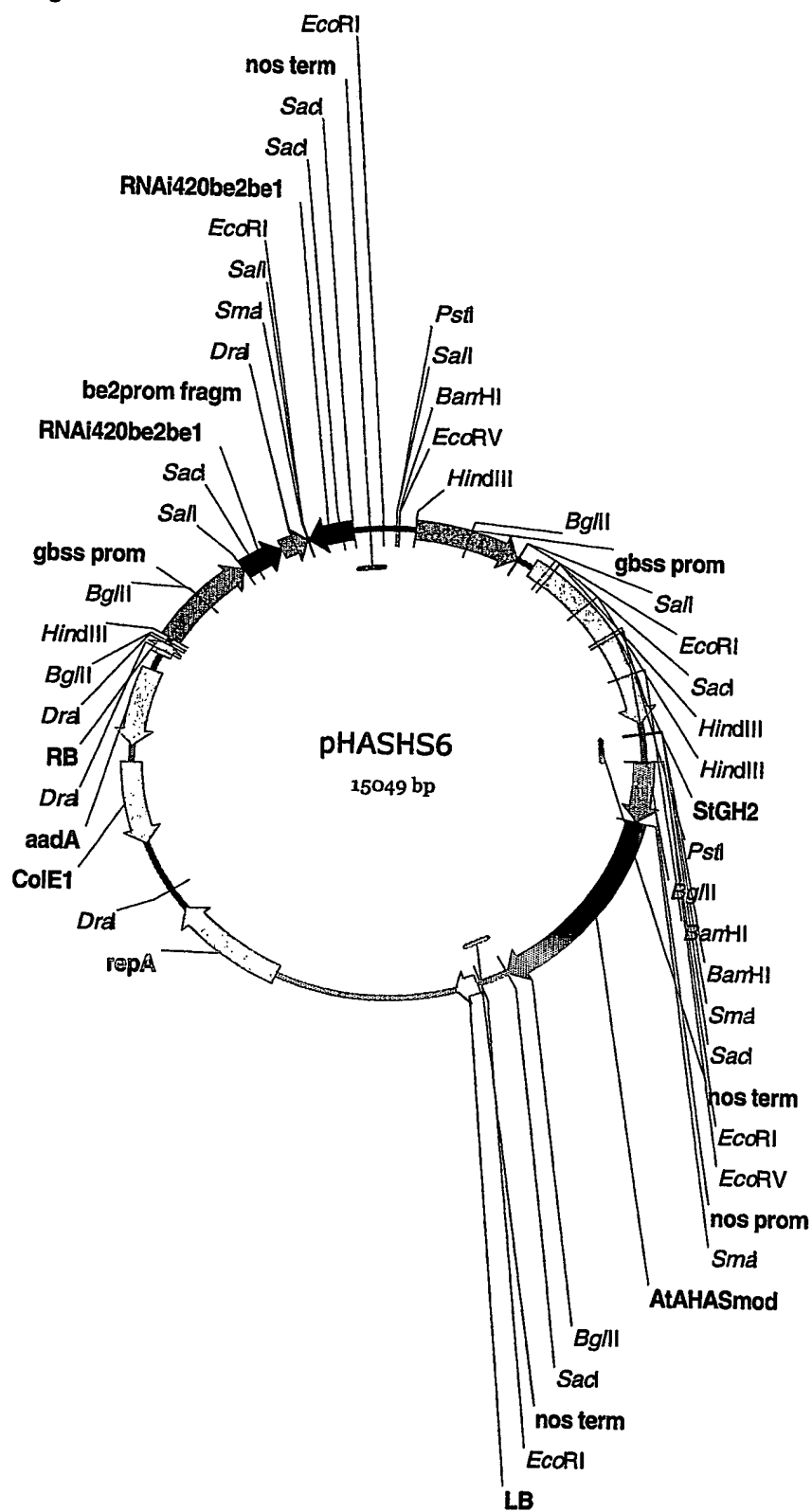


Figure 17

17/23

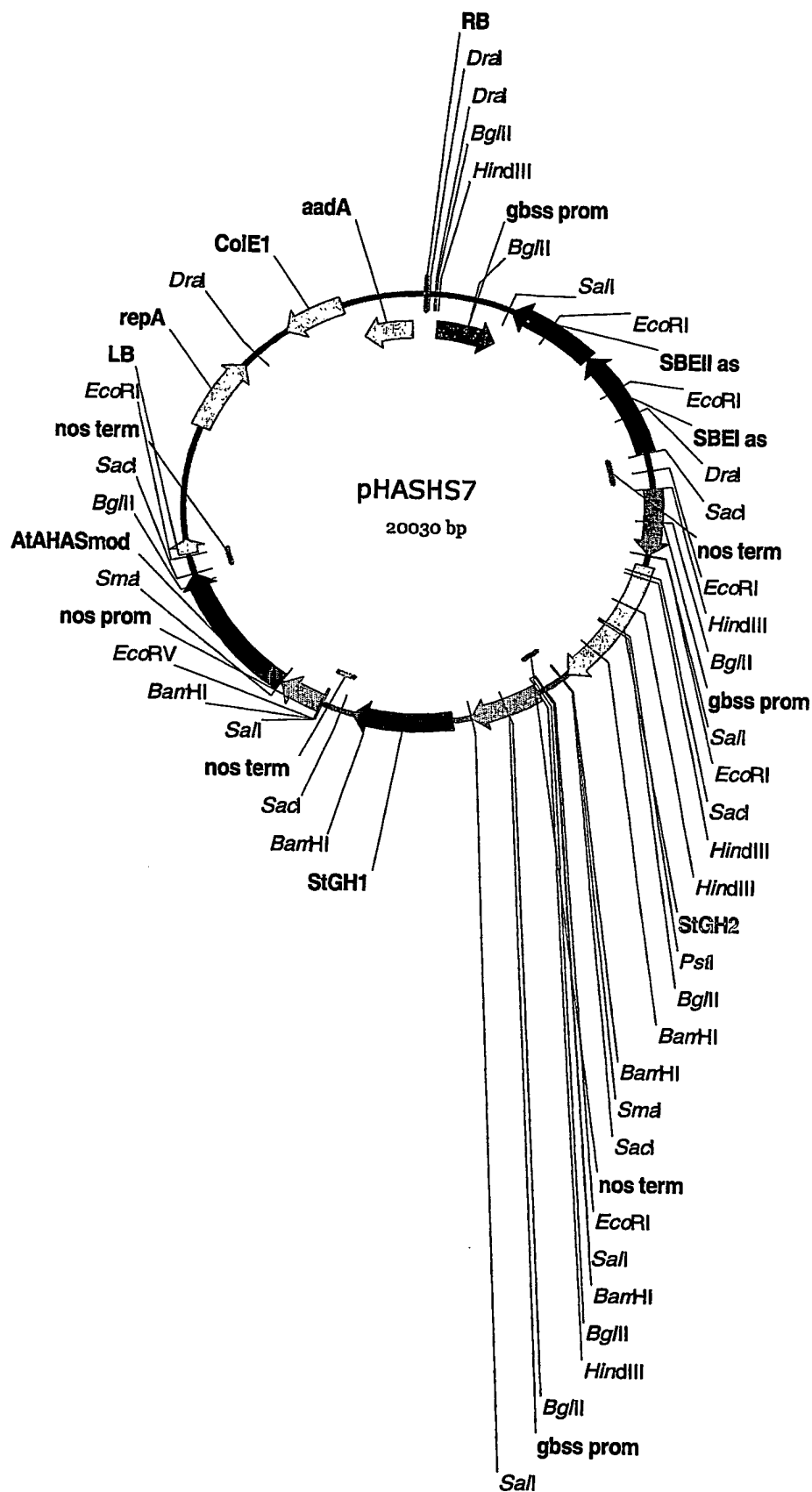


Figure 18

18/23

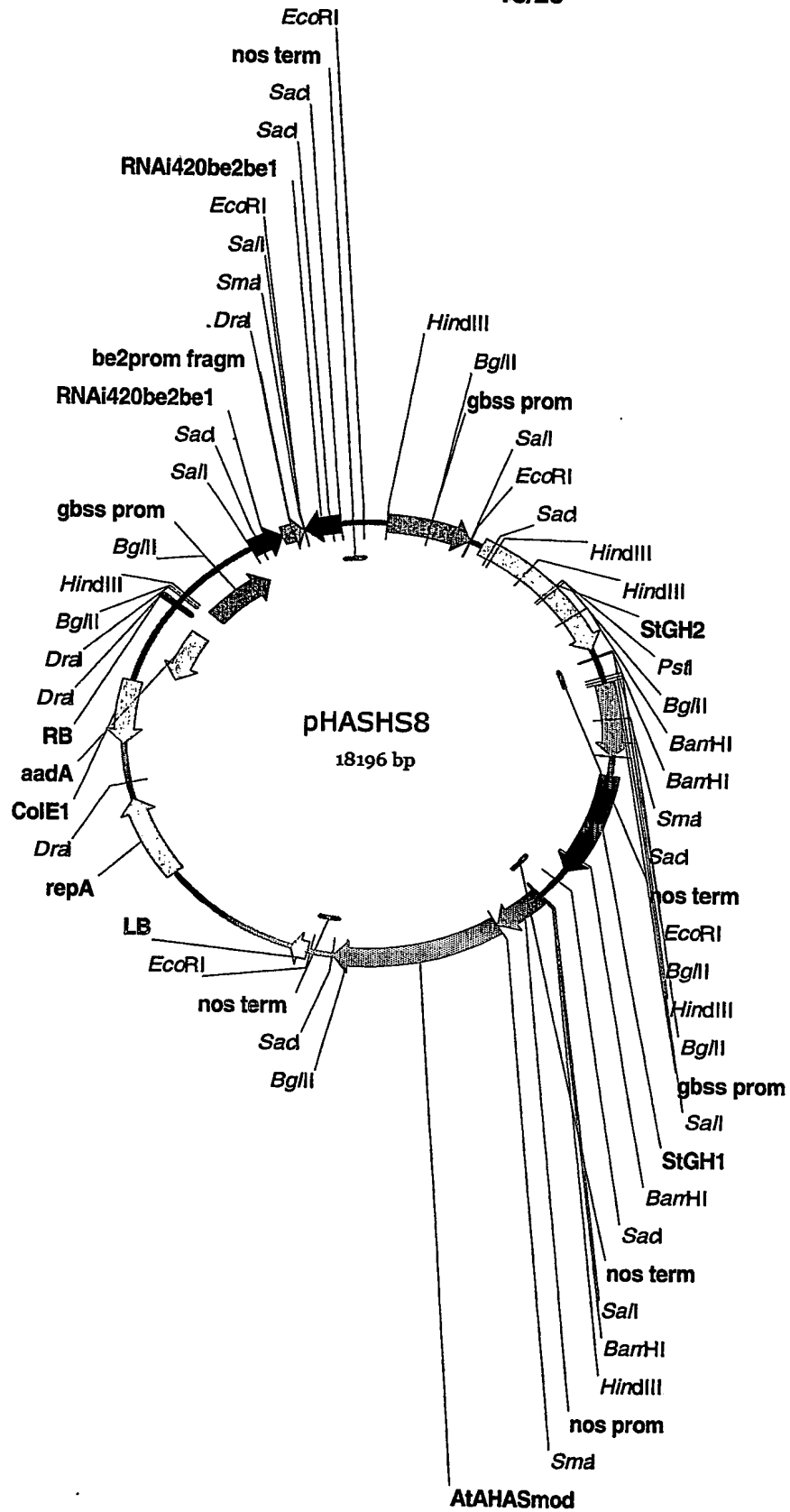


Figure 19

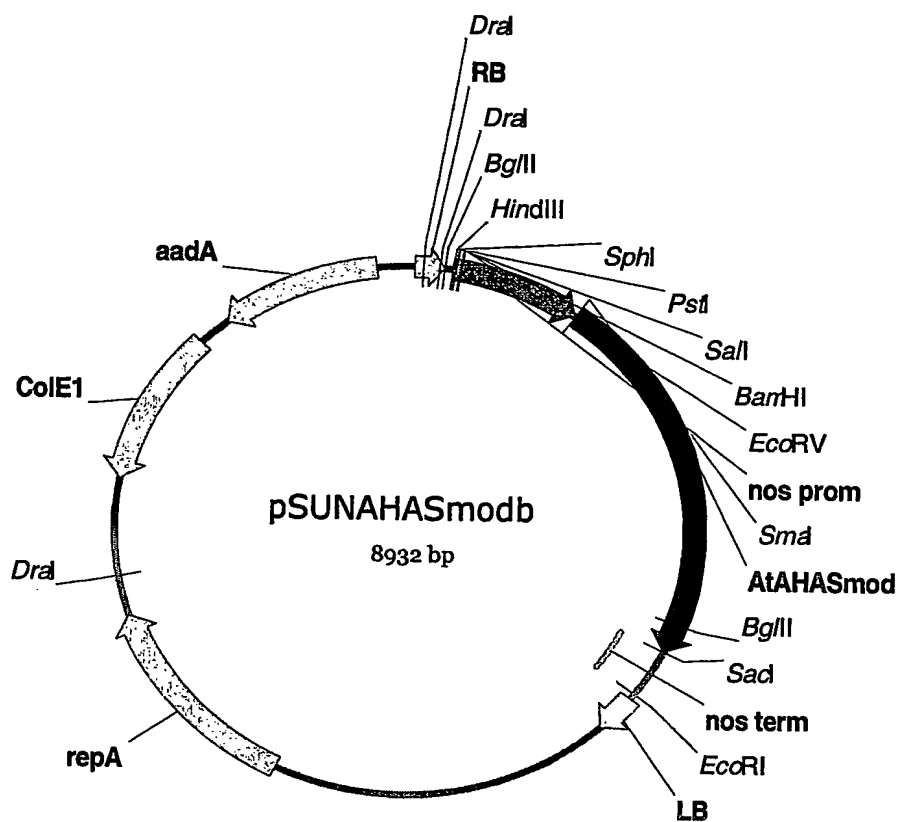


Figure 20

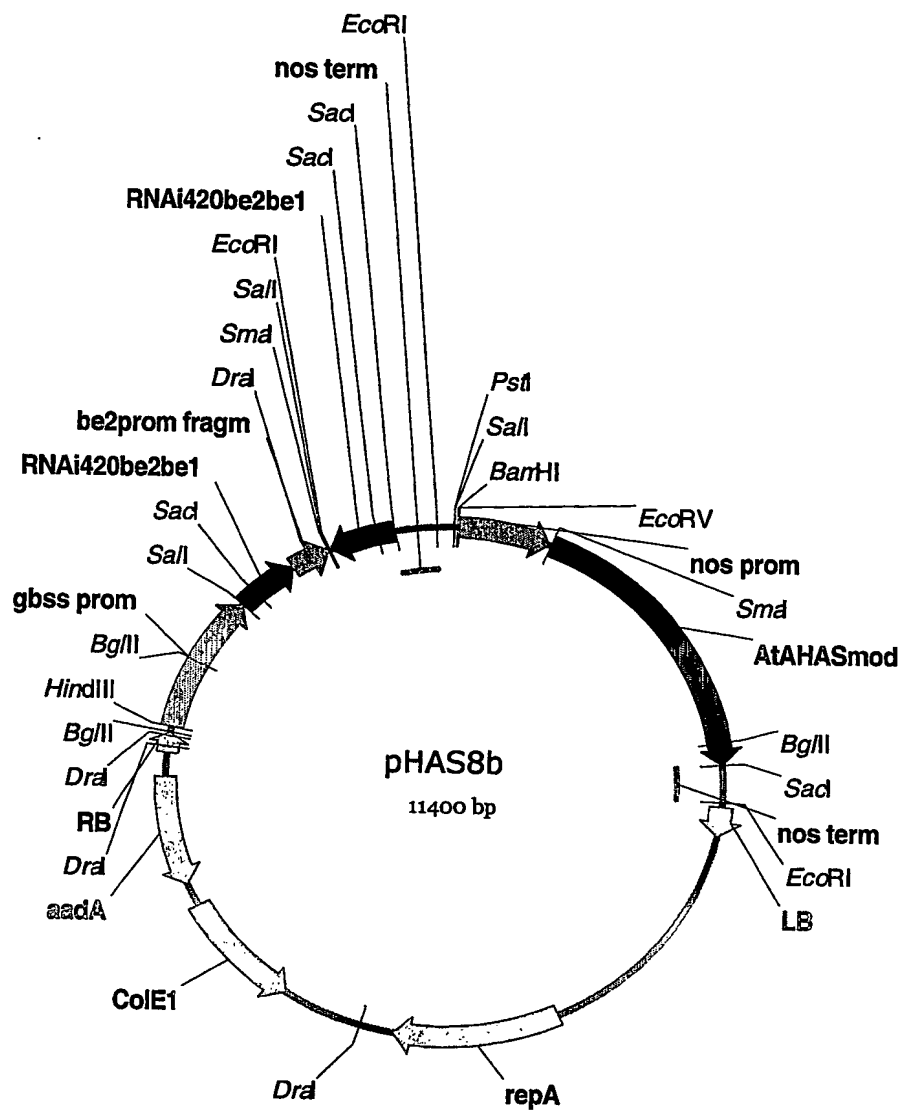


Figure 21

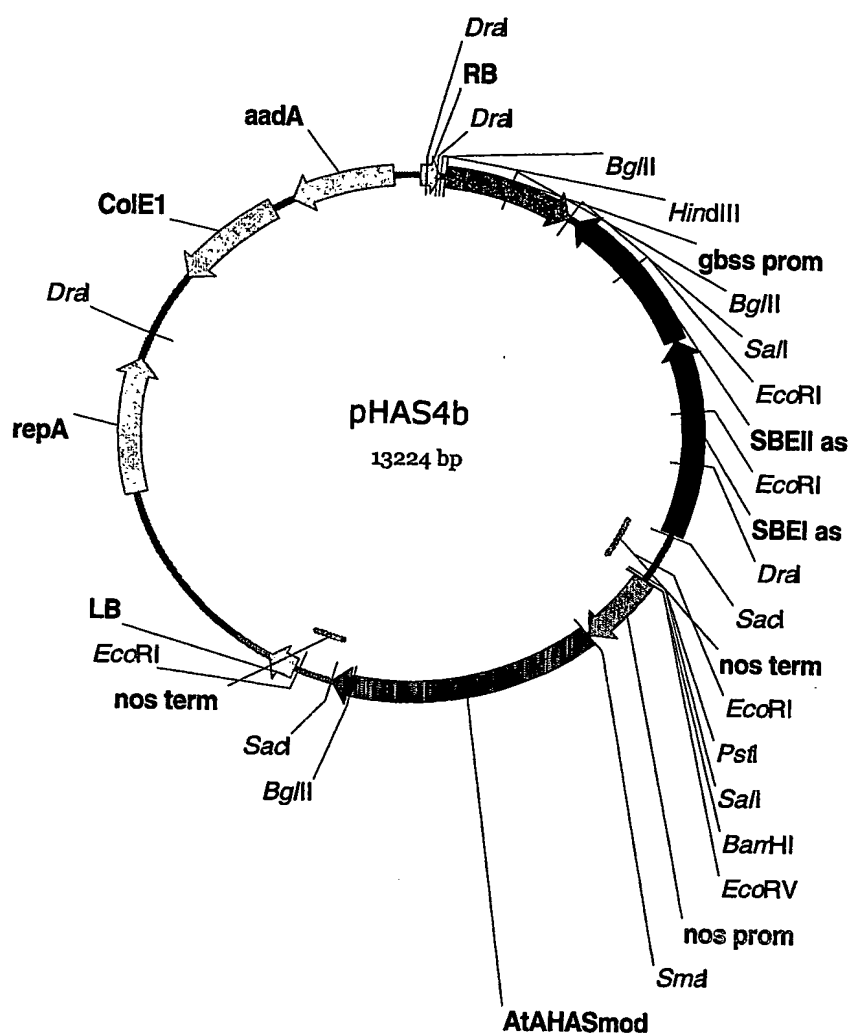


Figure 22

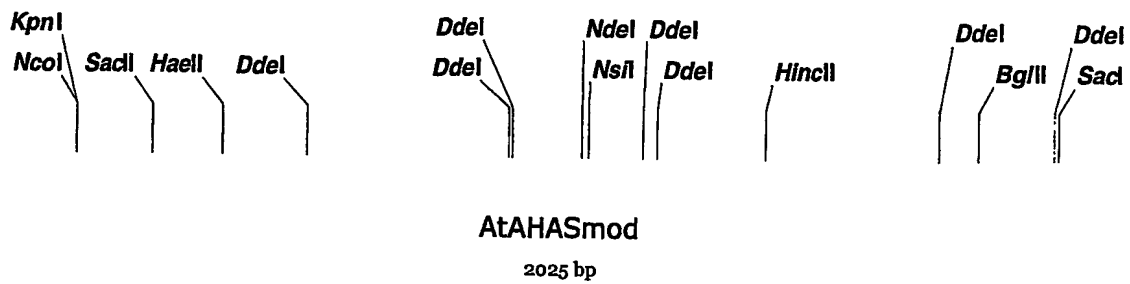


Figure 23

